

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

IN RE APPLICATION OF:

GROUP: 1796

Hiroshi TAKEI, et al.

SERIAL NO: 10/667,671

EXAMINER: ZIMMER

FILED: September 23, 2003

FOR: HEAT CONDUCTIVE SILICONE RUBBER COMPOSITE SHEET

**DECLARATION UNDER 37 C.F.R. § 1.132**

COMMISSIONER FOR PATENTS

ALEXANDRIA, VIRGINIA 22313

Sir:

Now comes Akio SUZUKI who deposes and states that:

1. I am a graduate of OSAKA UNIVERSITY and received my bachelor's degree in the year 1975.

2. I have been employed by Shin-Etsu Chemical Co., Ltd. for 33 years as a researcher for R&D in the field of applications of silicones.

3. I conducted the following measurement using an optical microscope to show that aromatic polyimide films available under the brand name of "Kapton 100H" from DuPont-Toray Co., Ltd. are non-porous in the sense of having no pores of at least 0.3 mm in diameter. Thus, I conducted the measurement with respect to Kapton 100H film with a thickness of 25  $\mu\text{m}$ .

Optical microscope photographs of the film was taken by means of an optical microscope (brand name: DIGITAL MICROSCOPE VHX-600, manufactured by KEYENCE CORPORATION). For the film, two photographs of different



magnifications (x 500 and x1,000) were obtained and attached hereto.

As shown by the photographs, the film of Kapton 100H does not have observable pores. Specifically, it is clear that the film has no pores of at least 10.00  $\mu\text{m}$  in diameter, much less pores of at least 0.3 mm in diameter.

4. The undersigned petitioner declares further that all statements made herein of his own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of this application or any patent issuing thereon.

5. Further deponent saith not.

Akio Suzuki  
Akio SUZUKI

November 14, 2008  
Date



Kapton 100H -25  $\mu$ m  $\times$  500





Kapton 100H-25  $\mu$ m  $\times$  1000

